



EST.1943 —



BEFORE lightning strikes...protect yourself!

Lightning can hit anyone who is in the wrong place at the wrong time.







WHAT is lightning?

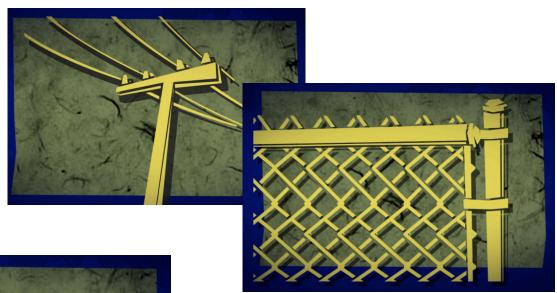
- Lightning is the buildup and release of electrical energy.
- One ground lightning stroke can generate up to 100 million volts of electricity.
- This electric bolt from the sky then heats the surrounding air to
 - 50,000 degrees Fahrenheit
 - 28,000 degrees Celsius
- This creates the amazing sound waves that we hear as thunder.





WHERE will lightning hit?

- Tall things
- Metal
- Water





 OR...a person standing on open ground or on a roof





RESULTS of lightning?

- 24,000 lightning deaths and 240,000 injuries occur each year worldwide.
- If someone is hit by lightning...
 it can cause
 - Burns
 - Nervous system damage
 - Other health problems.
- Lightning can...stop the heart!







BEFORE lightning strikes - protect yourself!

AVOID...

- High ground
- Metallic objects
- Solitary trees
- Water









BEFORE lightning strikes - protect yourself!

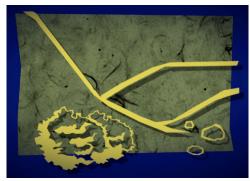
SEEK...

Shelter in a building

Safety inside a vehicle—without touching metal

A cluster of small trees or bushes

Lower elevations







The lightning crouch

Use the <u>lightning crouch</u>

...if you're caught outside and can't get to a shelter.



- Put your feet together.
- Squat down.
- Tuck your head.
- Cover your ears.

When the immediate threat of lightning has passed, continue heading to the safest place possible.



Use the 30-30 Rule.

- Know how close you are to a lightning strike.
 - Count the seconds between seeing the flash and hearing the thunder.
 - For every five seconds you count, the lightning is one mile / 1.6 kilometers away.

5 seconds = 1 mile = 1.6 kilometers



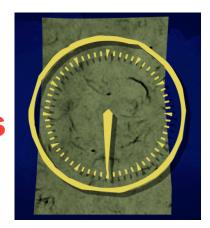


Use the 30-30 Rule.

• Count 30 seconds—If the time between when you see the flash and hear the thunder is 30 seconds or less, the lightning is close enough to hit you. Seek shelter immediately.



30 seconds



Count 30 minutes—After the last flash of lightning, wait 30 minutes before leaving your shelter. More than one half of lightning deaths occur after a thunderstorm has passed.





The best protection







Before Lightning Strikes—Resources

Special thanks to:

Center to Protect Worker Rights http://www.cdc.gov/eLCOSH/docs/d0200/d000282/d000282.html

National Lightning Safety Institute http://www.lightningsafety.com/

National Oceanic & Atmospheric Administration http://www.noaa.gov/lightning.html

Holle, R.L., 2007: Annual rates of lightning fatalities by country. International Conference on Lightning and Static Electricity



